NC/PMC/W-15/2018-19/CGR-C1 Date: 11-03-2019

1. TEST REPORT ON CEMENT:

Sub: Testing of 53 Grade Cement Sample (IS 12269-1987).
{Project*: Improvements to Roads ,C.C Drains and Covering Slab at Coconut Garden Roads And Krishnegowda Layout & Surrounding Area in ward No 15 }

Ref.: Material testing/W-15/PMC/18-19,

Report Required for: Assistant Executive Engineer,
T DASARAHALLI Sub division,
BBMP, Bangalore.

Name of the Agency/Contractor*: M/s KRIDL, Bangalore.

PHYSICAL TESTS ON CEMENT

Grade * : 53,
Type * : O.P.C

TABLE 1.1:

SL No	Name of Test	Test Results	Requirements as per IS 8112-1989
1	Initial setting time	**163 min**	Shall not be less than 30 min
2	Final setting time	**275min**	Shall not be more than 600 min
3	Fineness (by dry sieving on IS 90 micron sieve)	**1.18 %**	Not to exceed 10.0%
4	Soundness test(by Le-Chatelier's method)	**1.96 mm**	Shall not be more than 10 mm
5	Compressive strength a) 3 days (average of three results)	**29.05 N/Sq mm**	Shall not be less than 27 N/Sqmm

KIRAN. R
M.E. (Civil-Engg)

For Newzen Consultants Bangalore

Proprietor

ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು
ಟಿ.ದಾಸರಹಳ್ಳಿ ಉಪ-ವಿಭಾಗ
ಬಾಗಲಗುಂಟೆ, ಜಿಬಿಎಂಪಿ
ಬೆಂಗಳೂರು

NEWZEN CONSULTANT BANGALORE, #13,10TH MAIN ROAD 2ND CROSS JNANAJYOTHI NAGARA,
JNANABHARATHI, BANGALORE-560056. CELL NO: +91 8792620231, 080 23240187
EMAIL:newzen576@gmail.com

NC/PMC/W-15/2018-19/CGR-PCC1 Date: 11-03-2019

1. TESTING OF COARSE AND FINE AGGREGATES:

Sub: Testing of Coarse and Fine aggregates to be used for bed concrete.
{Project*: Improvements to Roads ,C.C Drains and Covering Slab at Coconut Garden Roads And Krishnegowda Layout & Surrounding Area in ward No 15 }

Ref.: Material testing/W-15/PMC/18-19,

Report Required for: Assistant Executive Engineer,
T DASARAHALLI Sub division,
BBMP, Bangalore.

Name of the Agency/Contractor*: M/s KRIDL, Bangalore.

1. COARSE AGGRGATES TABLE - SIEVE ANALYSIS:

IS Sieve Size, mm	Percentage passing	Requirements as per IS 383-1970 (Reaffirmed on 2007) % Passing	
	40 mm Sample	Single size	Graded
40mm	100.00	100.00	100.00
20mm	65.10	85-100	95 - 100
10mm	36.90	0 - 20	25 - 55
4.75mm	5.30	0 - 5	0 - 10

2. FINE AGGREGATES TABLE - SIEVE ANALYSIS:

IS Sieve Size, mm	Percentage Passing	Specification as Per IS: 383-1970(Reaffirmed 2002) Percentage Passing			Remarks
		Zone-I	Zone-II	Zone -III	
04.75	98.10	90-100	90-100	90-100	The Sample Conforms to Grading Zone-II
02.36	86.30	60-95	75-100	85-100	
01.18	63.45	30-70	55-90	75-100	
600.mic	52.05	15-34	35-59	60-79	
300.mic	26.85	5-20	8-30	12-40	
150.mic	7.65	0-10	0-10	0-10	

KVR
M.E. (Civil-Engg)

For Newzen Consultants Bangalore

Page No. 1/1,

NC/PMC/W-15/2018-19/CGR-C2 Date: 13-03-2019

1. TEST REPORT ON CEMENT:

Sub: Testing of 53 Grade Cement Sample (IS 12269-1987).
{Project*: Improvements to Roads ,C.C Drains and Covering Slab at Coconut Garden Roads And Krishnegowda Layout & Surrounding Area in ward No 15 }
Ref.: Material testing/W-15/PMC/18-19,
Report Required for: Assistant Executive Engineer,
T DASARAHALLI Sub division,
BBMP, Bangalore.
Name of the Agency/Contractor*: M/s KRIDL, Bangalore.

PHYSICAL TESTS ON CEMENT

Grade * : 53,
Type * : O.P.C

TABLE 1.1:

SL No	Name of Test	Test Results	Requirements as per IS 8112-1989
1	Initial setting time	**152 min**	Shall not be less than 30 min
2	Final setting time	**260min**	Shall not be more than 600 min
3	Fineness (by dry sieving on IS 90 micron sieve)	**1.16 %**	Not to exceed 10.0%
4	Soundness test(by Le-Chatelier's method)	**1.98 mm**	Shall not be more than 10 mm
5	Compressive strength b) 3 days (average of three results)	**28.45 N/Sq mm**	Shall not be less than 27 N/Sqmm

M.E, (Civil-Engg)

For Newzen Consultants Bangalore

Proprietor

NEWZEN CONSULTANT BANGALORE, #13,10TH MAIN ROAD 2ND CROSS JNANAJYOTHI NAGARA,
JNANABHARATHI, BANGALORE-560056. CELL NO: +91 8792620231, 080 23240187
EMAIL:newzen576@gmail.com

NC/PMC/W-15/2018-19/CGR-PCC2 Date: 13-03-2019

1. TESTING OF COARSE AND FINE AGGREGATES:

Sub: Testing of Coarse and Fine aggregates to be used for bed concrete.
{Project*: Improvements to Roads ,C.C Drains and Covering Slab at Coconut Garden Roads And Krishnegowda Layout & Surrounding Area in ward No 15 }

Ref.: Material testing/W-15/PMC/18-19,

Report Required for: Assistant Executive Engineer,
T DASARAHALLI Sub division,
BBMP, Bangalore.

Name of the Agency/Contractor*: M/s KRIDL, Bangalore.

1. COARSE AGGRGATES TABLE - SIEVE ANALYSIS:

IS Sieve Size, mm	Percentage passing	Requirements as per IS 383-1970 (Reaffirmed on 2007) % Passing	
	40 mm Sample	Single size	Graded
40mm	**100.00**	100.00	100.00
20mm	**64.10**	85-100	95 - 100
10mm	**35.90**	0 - 20	25 - 55
4.75mm	**5.45**	0 - 5	0 - 10

2. FINE AGGREGATES TABLE - SIEVE ANALYSIS:

IS Sieve Size, mm	Percentage Passing	Specification as Per IS: 383-1970(Reaffirmed 2002) Percentage Passing			Remarks
		Zone-I	Zone-II	Zone -III	
04.75	**97.25**	90-100	90-100	90-100	The Sample Conforms to Grading **Zone-II**
02.36	**86.40**	60-95	75-100	85-100	
01.18	**65.80**	30-70	55-90	75-100	
600.mic	**54.35**	15-34	35-59	60-79	
300.mic	**25.90**	5-20	8-30	12-40	
150.mic	**8.65**	0-10	0-10	0-10	

KIRAN. R
M.E. (Civil-Engg)

For Newzen Consultants Bangalore

Proprietor

NEWZEN CONSULTANT BANGALORE, #13,10TH MAIN ROAD 2ND CROSS JNANAJYOTHI NAGARA, JNANABHARATHI, BANGALORE-560056. CELL NO: +91 8792620231, 080 23240187
EMAIL:newzen576@gmail.com

NC/PMC/W-15/2018-19/CGR-C3 Date: 16-03-2019

1. TEST REPORT ON CEMENT:

Sub: Testing of 53 Grade Cement Sample (IS 12269-1987).
{Project*: Improvements to Roads ,C.C Drains and Covering Slab at Coconut Garden Roads And Krishnegowda Layout & Surrounding Area in ward No 15 }

Ref.: Material testing/W-15/PMC/18-19,

Report Required for: Assistant Executive Engineer,
T DASARAHALLI Sub division,
BBMP, Bangalore.

Name of the Agency/Contractor*: M/s KRIDL, Bangalore.

PHYSICAL TESTS ON CEMENT

Grade * : 53,
Type * : O.P.C

TABLE 1.1:

SL No	Name of Test	Test Results	Requirements as per IS 8112-1989
1	Initial setting time	**158 min**	Shall not be less than 30 min
2	Final setting time	**275min**	Shall not be more than 600 min
3	Fineness (by dry sieving on IS 90 micron sieve)	**2.09 %**	Not to exceed 10.0%
4	Soundness test(by Le-Chatelier's method)	**1.97 mm**	Shall not be more than 10 mm
5	Compressive strength a) 3 days (average of three results	**28.85 N/Sq mm**	Shall not be less than 27 N/Sqmm

KIRAN. R
M.E, (Civil-Engg)

Page No. 1/1,

For Newzen Consultants Bangalore

Proprietor

NC/PMC/W-15/2018-19/CGR-FA1 Date: 16-03-2019

1. TESTING OF FINE AGGREGATES :

Sub: Testing of Fine Aggregates.

{Project*: Improvements to Roads ,C.C Drains and Covering Slab at Coconut Garden Roads And Krishnegowda Layout & Surrounding Area in ward No 15 }

Ref.: Material testing/W-15/PMC/18-19,

Report Required for: Assistant Executive Engineer,
T DASARAHALLI Sub division,
BBMP, Bangalore.

Name of the Agency/Contractor*: M/s KRIDL, Bangalore.

TABLE - 1.1 : SIEVE ANALYSIS :

IS Sieve Size,mm	Percentage Passing	Specification as Per IS: 383-1970(Reaffirmed 2002) Percentage Passing			Remarks
		Zone-I	Zone-II	Zone -II	
04.75	**96.15**	90-100	90-100	90-100	The Sample Conforms to Grading **Zone-II**
02.36	**84.60**	60-95	75-100	85-100	
01.18	**67.90**	30-70	55-90	75-100	
600. mic	**46.75**	15.34	35-59	60-79	
300.mic	**22.35**	5-20	8-30	12-40	
150.mic	**8.40**	0-10	0-10	0-10	

TABLE 1.2 ;

Sl No	Test Conducted	Sample	Results	Requirements as Per IS. Specification IS :383-1970 (Reaffirmed 2002)
1	Bulking of Sand	001	**17.65%**	-----
2	Silt Content	----	**0.62 %**	Not more than 8%
3	Specific Gravity	----	**2.61**	-------

KIRAN. R
M.E, (Civil-Engg)

For Newzen Consultants Bangalore

Proprietor

NEWZEN CONSULTANT BANGALORE, #13,10TH MAIN ROAD 2ND CROSS JNANAJYOTHI NAGARA, JNANABHARATHI, BANGALORE-560056. CELL NO: +91 8792620231, 080 23240187
EMAIL:newzen576@gmail.com

NC/PMC/W-15/2018-19/CGR-CA1 Date: 16-03-2019

1. TESTING OF COARSE AGGREGATES (20 mm):

Sub: Testing of Construction Materials.

{Project*: Improvements to Roads ,C.C Drains and Covering Slab at Coconut Garden Roads And Krishnegowda Layout & Surrounding Area in ward No 15 }

Ref.: Material testing/W-15/PMC/18-19,

Report Required for: Assistant Executive Engineer,
T DASARAHALLI Sub division,
BBMP, Bangalore.

Name of the Agency/Contractor*: M/s KRIDL, Bangalore.

Table - 1.1 : SIEVE ANALYSIS :

IS Sieve Size, mm	Percentage passing	Requirements as per IS 383-1970 (Reaffirmed on 2002) % Passing	
	20 mm Sample	Single size	Graded
40 mm	100.00	100.00	100.00
20 mm	97.45	85-100	90 - 100
10 mm	46.80	0 - 20	25 - 55
4.75 mm	6.10	0 - 5	0 - 10

TABLE 1. 2 :

SL No	Test conducted	Results	Requirements as per IS:383-1970 & Tests Conforms to IS 2386(Part I to IV) – 1963 (Reaffirmed on 2002)
1.	Flakiness Index	22.45 %	Not to exceed 25 %
2.	Crushing value	26.38 %	Not to exceed 45 % for concrete other than for wearing surfaces and 30% for concrete for wearing surfaces

KIRAN. R
M.E, (Civil-Engg)

For Newzen Consultants Bangalore

Proprietor

NEWZEN CONSULTANT BANGALORE, #13,10TH MAIN ROAD 2ND CROSS JNANAJYOTHI NAGARA, JNANABHARATHI, BANGALORE-560056. CELL NO: +91 8792620231, 080 23240187
EMAIL:newzen576@gmail.com

NC/PMC/W-15/2018-19/CGR-S1 Date: 16-03-2019

1. TEST REPORT ON REINFORCEMENT STEEL:

Sub: Testing of Reinforcement Steel of diameter 10 and 12 mm **TMT Steel.**

{Project*: Improvements to Roads ,C.C Drains and Covering Slab at Coconut Garden Roads And Krishnegowda Layout & Surrounding Area in ward No 15 }

Ref.: Material testing/W-15/PMC/18-19,

Report Required for: Assistant Executive Engineer,
T DASARAHALLI Sub division,
BBMP, Bangalore.

Name of the Agency/Contractor*: M/s KRIDL, Bangalore.

TABLE – 1

SL No	Details	For 10 mm		For 12 mm	
		Test Results	Min Req. as per IS 1786-2008	**Test Results**	Min Req. as per IS 1786-2008
01	Observed diameter of bar	**10.0 mm**	10.0 mm	**12.0 mm**	12.0 mm
02	Observed Wt/m Length **Kg/m**	**0.618**	0.567	**0.892**	0.834
03	Proof stress/Yield stress, fy , **N/mm^2**	**535.0**	500.0	**548.0**	500.0
04	Bend/ Re bend Test	**Ok**	---	**Ok**	---
05	Percentage of Elongation, %	**21.50**	12.00	**20.30**	12.00
06	Ultimate Tensile Strength **N/mm^2**	**636.0**	545.0	**648.0**	545.0

Page No. 1/1,

KIRAN. R
M.E, (Civil-Engg)

ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು
ಟಿ.ದಾಸರಹಳ್ಳಿ ಉಪ-ವಿಭಾಗ
ಬಾಗಲಗುಂಟೆ, ಬಿಬಿಎಂಪಿ
ಬೆಂಗಳೂರು

For Newzen Consultants Bangalore

Proprietor